

WHAT IS CLAIMED IS:

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1. A starter with an overheat protection device including a brush device provided with
brush holders,
brushes slidably supported in said brush holders, respectively,
springs contacting one faces of said brushes to press said brushes in the radial, inner directions,
thermostats attached directly or indirectly to said brushes and adapted to interrupt energization of a starting motor caused by a power supply when said brushes exceed a predetermined temperature, caused by said starting motor continuously energized with said power supply.

2. A starter with an overheat protection device including a brush device according to claim 1, wherein each of said thermostats is provided in a hole of a molding with a heat resistance attached to a base fixed to a bracket of said starting motor, so as to contact said brush.

3. A starter with an overheat protection device including a brush device according to claim 2, wherein an elastic sheet is interposed between said base and said thermostat.

4. A starter with an overheat protection device including a brush device according to claim 1, wherein a flat sheet with a high thermal conduction property is provided between said brush and said thermostat.

5. A starter with an overheat protection device including a brush

device according to claim 4, wherein said thermostat and said flat sheet are bonded to each other by means of an adhesive with a high thermal conduction property.

6. A starter with an overheat protection device including a brush device according to claim 4, wherein said thermostat and the flat sheet are joined together by solder-welding.

7. A starter with an overheat protection device including a brush device according to claim 1, wherein a thermal insulation sheet is provided between said brush holder and said molding.

8. A starter with an overheat protection device including a brush device according to claim 1, wherein an inclined face is formed on one face of said brush contacting said spring, so as to apply said elastic force of said spring also on said thermostat side.

9. A starter with an overheat protection device including a brush device according to claim 8, wherein in the end of said spring contacting one face of said brush, an inclined portion contacting said inclined face of said spring is formed.

10. A starter with an overheat protection device including a brush device according to claim 8, wherein said spring is supported by a support elongating from said base in inclination to the vertical line therefrom, so that the end of said spring contacts along said inclined face of said brush.

11. A starter with an overheat protection device including a brush device according to claim 1, wherein at least said base, said molding, and said brush holder are joined together by means of a fastening means elongating through said base, said molding, and said brush holder.

12. A starter with an overheat protection device including a brush device according to claim 11, wherein said fastening means is a rivet.

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